



Europäisches Patentamt
European Patent Office
Office européen des brevets



Publication number: **0 378 968 A3**

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 89810953.3

(51) Int. Cl. 5: G01N 13/00

(22) Date of filing: 13.12.89

(30) Priority: 22.12.88 GB 8829942

(43) Date of publication of application:
25.07.90 Bulletin 90/30

(84) Designated Contracting States:
CH DE FR GB IT LI NL

(98) Date of deferred publication of the search report:
12.06.91 Bulletin 91/24

(71) Applicant: ISIS INNOVATION LIMITED
2 South Parks Road
Oxford OX1 3UB(GB)

Applicant: CIBA-GEIGY AG

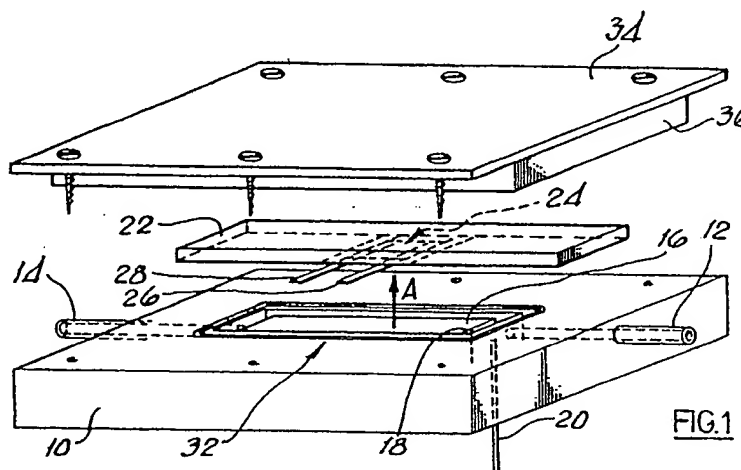
Klybeckstrasse 141
CH-4002 Basel(CH)

(72) Inventor: Compton, Richard Guy
17 Blackhall Road
Oxford OX1 3QF(GB)
Inventor: Unwin, Patrick Robert
17 Whitehouse Drive
Gt. Preston Leeds LS26 8BP(GB)
Inventor: Barwise, Anthony Jevon
37 Greenleach Lane
Worsley Manchester(GB)
Inventor: Pritchard, Keith Llewellyn
29 Bilter Road
West Harrow Middlesex HA1 4OS(GB)

(54) Method and flow cell for the measurement of the kinetics of processes occurring at a solid-liquid interface.

(57) The invention provides a method and a flow cell for determining the kinetics of a process occurring at the interface between a liquid and a solid which comprises mounting the solid on one wall of a flow cell, flowing the liquid through the cell whereby it passes over the surface of the solid under fully

developed laminar conditions, and then past a detector for detecting the concentration of a liquid phase reactant or reaction product downstream of the solid, thereby allowing the kinetics to be determined.



EP 0 378 968 A3



European
Patent Office

EUROPEAN SEARCH REPORT

Application Number

EP 89 81 0953

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	JOURNAL OF APPLIED ELECTROCHEMISTRY, vol. 18, no. 4, July 1988, pages 657-665, Chapman & Hall, London, GB; R.G. COMPTON et al.: "Double channel electrodes and the measurement of heterogeneous reaction rates at the solid-liquid interface" * Figures 2,7; section 3: "Expemerimental details" *	1-5,7-15	G 01 N 13/00
A	DE-A-3 416 599 (SIEMENS AG) * Figure 1; page 7, lines 7-33 *	1-4	
A	ANALYTICAL CHEMITRY, vol. 52, no. 13, November 1980, pages 2062-2066, Easton, PA, US; S.M. RAMASAMY et al.: "Flow injection analysis based on two consecutive reactions at a gas-solid interface for determination of bromine and chlorine" * Section: "Procedure"; page 2062 *	1,5	
A	US-A-4 279 860 (V.F. SMOLEN)		
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			G 01 N 13/00 G 01 N 21/00
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of search 15 February 91	Examiner HODSON C.M.T.
<div>CATEGORY OF CITED DOCUMENTS</div> <div>X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention</div> <div>E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons &: member of the same patent family, corresponding document</div>			